















Keywords is a reserved word in Python and is used for special purpose, it can not be as an identifier.

if → Keyword in Python

while → Keyword in Python

Identifiers are names given to a variables, functions, classes and other parts of a program.

variables

```

x = 5
y = 10
z = x + y
print(z)
  
```

Rules to create an identifier-

① An identifier is a long sequence of characters and digits.

$$\begin{aligned} x = 10 &\rightarrow \textcircled{x125} = 30 \\ y = 30 &\textcircled{y2} = 40 \end{aligned}$$

② An identifier can not start with a digit.

valid } $\begin{aligned} \textcircled{x1} = 10 &\rightarrow \textcircled{1x} = 10 \\ \textcircled{y2} = 30 &\textcircled{2y} = 20 \end{aligned}$ } Invalid

③ An identifier can not have special character(s).

Special characters = { \$, %, #, !, @, : }

$\checkmark \overline{\$x} \rightarrow$ invalid

$\checkmark \overline{\%x} \rightarrow \overline{x\%} \rightarrow$ Invalid-

④ \checkmark is a special character, however, it can be a part an identifier.

$\checkmark \overline{x} \rightarrow$ valid

$\checkmark \overline{xn} \rightarrow$ valid

⑤ Upper case and lower are different:

$$\begin{array}{l} \uparrow V_A = 5V \\ \downarrow V_Q = 5 \end{array}$$